University of the Incarnate Word®

Bachelor of Science in Biochemistry Pre-Medicine Concentration

School of Mathematics, Science and Engineering

PROGRAM OVERVIEW

The Bachelor of Science (B.S.) in Biochemistry program has a Pre-Medicine (pre-med) concentration for students who want to pursue medical school after graduating with their undergraduate degree. The courses in the pre-med program are aligned with the admissions criteria for all medical schools in Texas and a large number in other states. This concentration is designed to prepare students for the medical school admissions exam (MCAT) and equip them with the knowledge and skills needed to succeed once in medical school.

The pre-med concentration under the B.S. in Biochemistry program will give students a strong foundation in biology, chemistry, physics and the social sciences. This specialized curriculum will ensure that students are prepared for the MCAT, provided with research opportunities and trained in communication and writing skills. In addition to academic skills, the program will help students master the core competencies necessary for success in medical school and beyond when they serve their communities as a physician.

QUICK FACTS

- Students wishing to pursue medical school or advanced study in fields such as pharmacy or other health fields will be well-prepared to move on to such professional programs.
- Students may also advance directly to the workforce as a clinical research assistant, lab technician, forensic scientist or other positions in biotechnology, product development, higher education, private labs, government, hospitals and medical centers, to name a few.

ADMISSION REQUIREMENTS

The requirements for admission to the B.S. in Biochemistry program are the same as the requirements for admission to the University of the Incarnate Word.

CONTACT

UIW Admissions
(210) 829-6005
admission@uiwtx.edu

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Biochemistry - Pre-Medicine

DEGREE PLAN

B.S. in Biochemistry - Pre-Medicine

FRESHMAN YEAR

Fall

CHEM 1301: Chemical Principles I (3 hours)
CHEM 1101: Chemical Principles I Lab (1 hour)
MATH 1311: Pre-Calculus* (3 hours)
ENGL 1311: Composition I* (3 hours)
PSYC 1301: Psychology (3 hours)
FYES 1211: First Year Experience Seminar (2 hours)
Total Hours: 15

Spring

CHEM 1302: Chemical Principles II (3 hours)
CHEM 1102: Chemical Principles II Lab (1 hour)
MATH 2312: Calculus I (3 hours)
BIOL 1402: General Biology I and Lab* (4 hours)
ENGL 1312: Composition II (3 hours)
PEHP Physical Activity Course* (1 hour)
Total Hours: 15

SOPHOMORE YEAR

Fall

CHEM 2311: Organic Chemistry I (3 hours)
CHEM 2111: Organic Chemistry I Lab (1 hour)
MATH 2313: Calculus II (3 hours)
CHEM 3160: Intro to Research[$] (1 hour)
CIOL 3311: Cell Biology (3 hours)
General Elective (3 hours)
PHIL 1381: Intro to Philosophy (3 hours)
Total Hours: 17

Spring

CHEM 2312: Organic Chemistry II (3 hours)
CHEM 2112: Organic Chemistry II Lab (1 hour)
MATH 2303: Statistics or MATH 3331: Foundations of Probability and Stats (3 hours)
SOCI 1311: Sociology* (3 hours)
CHEM 4260: Advanced Chemical Research (2 hours)
BIOL 3471: General Microbiology (4 hours)
Total Hours: 16

JUNIOR YEAR

Fall

CHEM 4351: Biochemistry I (3 hours)
CHEM 4251: Biochemistry I Lab (2 hours)
Pre-Medicine Elective Coursework (3 hours)
Advanced BIOL Elective (3 hours)
PHYS 2305: Physics I (3 hours)
PHYS 2105: Physics I Lab (1 hour)
Total Hours: 15

Spring

CHEM 4352: Biochemistry II[#] (3 hours)
CHEM 4252: Biochemistry II Lab[#] (2 hours)
BIOL 4199: Selected Topics (1 hour)
Advanced Biochemistry Elective (3 hours)
PHYS 2306: Physics II (3 hours)
PHYS 2106: Physics II Lab (1 hour)
Total Hours: 13

SENIOR YEAR

Fall

CHEM 4331: Physical Chemistry: Thermodynamics[$] (3 hours)
CHEM 3321: Quantitative Analysis (3 hours)
CHEM 3221: Quantitative Analysis Lab (2 hours)
RELS 13XX* (3 hours)
Modern Language I* (3 hours)
Total Hours: 14

Spring

PHIL 4350: Advanced Philosophy: Bioethics (3 hours)
Fine Arts* (3 hours)
ENGL 2310: World Literature Studies* (3 hours)
Modern Language II* (3 hours)
HIST 13XX* (3 hours)
Total Hours: 15

***Core curriculum** **[#]Spring ONLY Course** **[$]Fall ONLY Course**

A minimum of 120 hours are needed to complete the B.S. in Biochemistry.

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